	DEPARTMENT OF HEAT	TH AND HUMAN SERV G ADMINISTRATION	ICES			
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	l Drive, Suite 205	2/20,	/2017-3/24/2017*			
Lenexa, KS 6	0 Fax: (913) 495-5115	19502				
NAME AND TITLE OF INDIVIDU	JAL TO WHOM REPORT ISSUED		1			
Thomas E. Ha	ndel , President and General		Y			
20,000,000	ical Technologies, Inc. a	STREET ADDRESS	D.			
		2555 Hermelin	Dr			
Pfizer Compa	VIRY	TYPE ESTABLISHMENT INSPECTE	D .			
Brentwood, M	Brentwood, MO 63144-2504 Combination Drug/Device Manufacturer					
observations, and do observation, or have action with the FDA	observations made by the FDA representative(s) not represent a final Agency determination regardinplemented, or plan to implement, corrective representative(s) during the inspection or submitact FDA at the phone number and address about	arding your compliance. action in response to an o it this information to FD.	If you have an objection regarding an observation, you may discuss the objection or			
	noted in this Form FDA-483 are not an exh for conducting internal self-audits to ident					
OBSERVATION There is a failure its components Specifically, A. Your invest finished proceed 5/9/manufacturing the Power Pak and an analysis of the Power Pak and an analysis of the Power Pak and analysis of the Power Pak analysis of the P	re to thoroughly review any unexplated meet any of its specifications who igation of two complaints of 'Failure duct lot number 5FA665 did not extend these complaints through investigation 16 and QAR Detail #PR ID: 28587 and defects that resulted in distorted tak assembly. This assembly is used assembly lots	e to Activate' for the bate on all potential ons conducted under the pened 2/23/17. To (b) (4) in the lin both EpiPen and (b) (4) were identified as	the EpiPen 0.3 mg Auto-injector lly impacted lots. Your firm er QAR Detail #PR ID: 22268 these investigations identified e Power Pak (b) (4) of ad EpiPen Jr. Auto-injectors.			
SEE REVERSE OF THIS PAGE	Michele L Obert, Investigator Kellia N Hicks, Investigator Phillip M Pontikos, National Rick L Friedman, Non Reporti Frank Wackes, Compliance Off (Region/District) Zedong Dong, FDA Center Empl Employee of Other Federal Ag John C Mcmichael, FDA Center Employee of Other Federal Ag	Expert ng User icer oyee or encies Employee or	DATE ISSUED 3/24/2017 X Kellis N Hicks Kellis N Hicks Kellis N Hicks Marginer Sport by Rolls K Hicks 6 Michael J. Chart 24 M A 121 J.			
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INSI	PECTIONAL OBSERVAT	TIONS PAGE 1 OF 20 PAGES			

	DEPARTMENT OF HEAL' FOOD AND DRUG	TH AND HUMAN G ADMINISTRATION		
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NAME AND TITLE OF INDIVIDU	JAL TO WHOM REPORT ISSUED			
	ndel , President and General	Manager		
FIRM NAME	nder , riesident and General	STREET ADDRESS		-
Meridian Med	ical Technologies, Inc. a	2555 Herme	elin Dr	
Pfizer Compar	ny	TYPE ESTABLISHMENT		v — XIV II i i i i i pini i i i i i i i
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Brenewood,	3 0314 2304	COMBINACIO	m brug/bevice manar	accurer
flash near the evaluate or Your firm defailure to a your investing defective Possible. Your firm defailed function most probability material. You batch record. C. Your investing atropine in I your firm idense to the conditions of the conditions	lid not perform (b) (4) 15815 prior to release of the lots. ionality testing for low delivered volution of the control of the	lot (b) (4) Lot (b) (4) complaint device termine if the lots remain of testing. This QAR was ume due to ce as the present distributional physical ess the issue of the complete testing of (b) (4) using of (b) (d) using of (b) (and found up to 11 was also rejected by manufacturing defect ices alleging similar failurese devices had a distorted on the market that contains on the six (6) implicated as opened when EpiPen I (b) (4) defect. Your frence of a non-homogeneous these (b) (4) was all tests were performed. of the large number of low le Injection (ATNAA). Iter (Atropine). The (b) (4) other interpretation of the large number of low le Injection (ATNAA). Iter (Atropine). The (b) (4) other interpretation of the large number of low le Injection (ATNAA). Iter (Atropine). The (b) (4) other interpretation of the large number of low le Injection (ATNAA). Iter (Atropine). The (b) (4) other interpretation of the large number of low le Injection (ATNAA). Iter (Atropine). The (b) (4) other interpretation of the large number of low le Injection (ATNAA). Iter (Atropine). The (b) (4) other interpretation of the large number of low le Injection (ATNAA). Iter (Atropine). The (b) (4) other interpretation of the large number of low le Injection (ATNAA). Iter (Atropine). The (b) (4) other interpretation of the large number of low le Injection (ATNAA). Iter (Atropine). The (b) (4) other interpretation of the large number of low le Injection (ATNAA). Iter (Atropine).	instances of at you did not at you did not at you did not at were present. If modes for ed(b) (4) From a potentially I lots identified out of the firm listed the out area in a limited to W fills for For this lot, are batches CAPAs were
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	Employee of Other Federal Age			
	John C Mcmichael, FDA Center		or	
	Employee of Other Federal Age	encies		
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INSP	PECTIONAL OBS	ERVATIONS	PAGE 2 OF 20 PAGES

PAGE 2 OF 20 PAGES

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

	TH AND HUMAN SERVICES
FOOD AND DRUG DISTRICT ADDRESS AND PHONE NUMBER	G ADMINISTRATION DATE(S) OF INSPECTION
8050 Marshall Drive, Suite 205	2/20/2017-3/24/2017*
Lenexa, KS 66214 (913)495-5100 Fax:(913)495-5115	FEI MUMBER 1950222
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	
Thomas E. Handel , President and General	Manager
FIRM NAME	STREET ADDRESS
Meridian Medical Technologies, Inc. a Pfizer Company	2555 Hermelin Dr
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Brentwood, MO 63144-2504	Combination Drug/Device Manufacturer

OBSERVATION 2

Control procedures are not established which monitor the output and validate the performance of those manufacturing processes that may be responsible for causing variability in the characteristics of inprocess material and the drug product.

Specifically,

- A. Your procedures and practices allow your employees to repeatedly inspect lots of ATNAA to cull out defective units. These repeated 100% visual inspections however, do not remove all of the defective units.
 - 1. Based upon review of production data, (b) (4) % of the batches from the ATNAA / DuoDote process (b) (4) out of (b) (4) batches inspected between 1 JAN 2015 and 21 FEB 2017) are not complying with the specified criteria for percent defect for critical, major, or minor defects during the 100% manual inspection. Your firm performed an additional 100% inspection for (b) (4) batches out of (b) (4), approximately (b) (4)% of the time. Additionally, there has been at least one batch, Lot 6M1133, which was subsequently rejected because it did not meet the criteria for a (b) (4) ; after the performance of a (b) (4) 100% inspection.
 - 2. ANTAA Lot 6M1454, exceeded the alert limits for critical and minor defects during the initial 100% visual inspection. It passed the initial Acceptable Quality Limit (Visual (b) (4)) QA performs on (b) (4) of the "acceptable" units. Since this lot exceeded your defect alert limits, your firm performed a (b) (4) on (b) (4) of the "acceptable" units. During the (b) (4) the QA Inspector found one (1) unit with a low fill in the front chamber which is a critical defect. Therefore, your firm performed another 100% visual inspection and found 20 units with critical defects, 30 with major defects, and 907

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	Phillip M Pontikos, National Expert Rick L Friedman, Non Reporting User	Kella N Hels Investigator Signed by: Kella N. Hels -S	
	Frank Wackes, Compliance Officer (Region/District)	Nu	
	Zedong Dong, FDA Center Employee or Employee of Other Federal Agencies		
	John C Mcmichael, FDA Center Employee or Employee of Other Federal Agencies		

	DEPARTMENT OF HEAL FOOD AND DRUG			
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NAME AND TITLE OF INDIVIDU	JAL TO WHOM REPORT ISSUED			
Thomas E. Ha		Manager		
FIRM NAME		STREET ADDRESS		
	ical Technologies, Inc. a	2555 Her	melin Dr	
Pfizer Compa	NTRY	TYPE ESTABLISHME	ENT INSPECTED	
Brentwood, M	0 63144-2504	Combinat	ion Drug/Device Manuf	acturer
Mind Assuments A	or defects were found. This batch we urance Unit. al visual inspection programs are de- re is no evaluation of the efficiency /	ras released eficient since	e:	Quality
	ection over time for your basic units.			
	(b) (4) certification process for detec			
	formed at the end of the shift in order	to evaluate	the impact of fatigue, if a	ny, upon defect
	ction capability.	. <u>.</u>		
			into EpiPen manufacturin	
	rify the maximum amount of time	(b) (4)		
perfe	orm visual inspection. Current estab	lished prac	tice does not limit inspecti	on time to
	ent errors caused by fatigue and loss		-	
requ	tired break times and are not qualified	d for this in	spection before being assi	gned and
	orming the (b) (4) evaluation task.		•	
	ON 3 cribing the handling of all written and tten and followed.	d oral comp	plaints regarding a drug pro	oduct are not
Specifically,				
Spoomer,				
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	Rick L Friedman, Non Reportin		Spread by: Rolle 16. Hicks -G	
	Frank Wackes, Compliance Off: (Region/District)	icer	Muo	
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FIRM NAME		STREET ADDRESS	
	dical Technologies, Inc. a	2555 Her	rmelin Dr
Pfizer Compa	INTRY	TYPE ESTABLISHME	MENT INSPECTED
Brentwood, M	10 63144-2504	Combinat	tion Drug/Device Manufacturer
necessary t 00702.	o identify a trend per your procedure classifications, listed in GPB-QS107	Product Co	ats of a similar nature on the same lot are complaint Handling SOP-QLC-QLE-ation of Pfizer Product Quality are not commensurate with the associated
classification prioritization prioritization your firm. associated a 'Container' C. No safety or rates received.	ons (Expedite, High, Normal) are asson classifications dictate the speed and There are at least ten product complaints including, but not limited to, 'Specification's Broken/Cracked/Leaking Prior to Us (b) (4) classified as Nor risk assessment has been completed	signed to cond thorough int classific contaneous ase' classified Normal.	nness of the investigations conducted by cations that do not adequately reflect the Activation' classified as Normal,
verifying the ac established. Specifically, in	identifying valid statistical technique eceptability of process capability and	product ch	for establishing, controlling, and naracteristics have not been adequately for establishing, controlling, and verifying
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	andel President and General	1 16		
Thomas E. Ha	andel , President and General	L Manager		
MAINTANA AND AND AND AND AND AND AND AND AND	dical Technologies, Inc. a	2555 Hermelin I	nr	
Pfizer Compa				
		Combination Dru		
Brentwood, n	40 63144-2504	COMDINACION DIG	ug/Device Manufa	acturer
	provided no rationale for the accepta			
	sociated with releasing defective processociated (b) (4)		ceptable Quality Li	
plan and as		10000 25		with the
product 11sr	k based on intended use and design i	inputs of the product	<u> </u>	
collected in	does not currently distinguish the fain reject bins on the EpiPen manufact tack or trend the rejects from the Epi	uring assembly line.	. In addition, your	firm does not
	ts associated with the number or type			100 x
C. Your firm f example, 1. The cap Specific equipmed large nut 2. Your fire variation 3. Your fire the qual periodice	failed to routinely evaluate ongoing stability and suitability of equipment cally, process capability evaluations ent to produce conforming units. In umber of defects were inspected out rm failed to adequately analyze data on occurred and defective units were rm lacked sufficient ongoing trendin lity of the finished product. For exactally assess (e.g. process trending reply detect atypical variability that may	to produce conform did not reflect inher stead, you only calcu of the batch. to determine proces produced. ag of numerous in-pr mple, there was insu ports, Annual Revie	ing units was not astent capability of the sulated process capacters points in which exposes attributes that afficient ongoing traw) process perform	ssessed. e process ability after a excessive at are critical to ending to
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CITY, STATE, ZIP CODE, COU	NTRY	TYPE ESTABLISHME	
Brentwood, M	0 63144-2504	Combinat	ion Drug/Device Manufacturer
standards of ear control procedu Specifically, yo does not includ	ch drug product to determine the nectures. our analysis of the quality data used or an analysis of complaints based or to identify existing or recurring qua	ed for chang to identify e n finished problem	
appropriate The reliabilinclude a sy 1. Your incertain of dose, or not give test as d	ity inputs/requirements of the device stem level reliability design input/re puts/requirements list an AQL (b) (4) to confidence of no more than (b) (4) Epil other critical tests, per (b) (4) Epil	in regards to according equirement. for critical to the per (b) (Pen, EpiPen commensur lose,	to the reliability of the delivery system. to your PRD/TRD 16-001 Rev 1 do not ests, which equates to establishing a (4) products. (b) (4) failures of delivered Jr., or (b) (4) products does ate with the risk of failure of a critical (b) (4) , etc.).
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Thomas E. Ha	ndel , President and General	Manager		
FIRM NAME		STREET ADDRESS		
	ical Technologies, Inc. a	2555 Hermelin	Dr	
Pfizer Compa:	пу	TYPE ESTABLISHMENT INSPECTED		
Brentwood, M	0 63144-2504	Combination Dr	ug/Device Manufa	acturer
AQL of perform 3. No ratio emerger B. The design PRD/TRD delivery per outside of the EpiPen for evolume for	equirements for certain essential per (b) (4) which establishes a certain co ance input/requirement, such as onale is provided for the acceptability next use, life-saving intended use of the inputs/requirements of the EpiPen, I (6-001 Rev 1 the design inputs/requirements of the EpiPen, EpiPen Jr. the principal design attributes listed. I dose volume is (b) (4) mL. How the EpiPen is described as (b) (4) — (b) (L at AQL (b) (4).	nfidence of no mor (b) (4) y of these design in he product. EpiPen Jr., and irements related to , and (b) (4) As an example, the yever, under input/r	e than (b) (4) failures , per (b) (4) prod puts/requirements (b) (4) are co the 'Pharmaceutica have specifica principal design at requirement the del	of an essential ucts. based on the onflicting. In 1 / drug tions that are tribute for the ivered dose
to a risk ass of the docur and the user different lev D. Design inpu AQLs to des	inputs/requirements of the EpiPen, I essment of the product. It is unclear ment titled PRD/TRD 16-001 Rev 1 //patient needs, especially considering rels of acceptability based on the consts/requirement specifications of the scribe the necessary confidence level of some consider the needs of the product of the product of the scribe the necessary confidence level of the needs of the product of t	if the specifications are appropriate for g that many of the affidence of a sample EpiPen, EpiPen Jr., I associated with ear	s listed under the 'I' the intended use of specifications are s ing plan. and (b) (4) ach range of a speci	the device plit into utilize fication;
	QLs do not consider the needs of the			
Rev 1 the	(b) (4) input/requirent vo ranges of values associated with	nent specification is (b) (4)	described with tw	o different
AQLS for tv	vo ranges or values associated with	(U) (1)	·	
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FIRM NAME Maridian Mad	ical Technologies, Inc. a	STREET ADDRESS 2555 Herm	olin Dr			
Pfizer Compa	ny	2555 Herm	elin Dr			
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Brentwood, M	0 63144-2504	Combination	on Drug/Device Manufa	acturer		
successfully	has not established design inputs/req y inject through clothing as specified Injection Sites and Site Condition of	d by the inten	ded use of the product as	defined by		
OBSERVATION Procedures for	ON 7 design output have not been adequa	tely establish	ed.			
Specifically,	Direction of the control of the form of the control	(m) (a (a) (a) (a) (a) (a) (a) (a) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b				
design input document to reports, and requirement product. B. The design specification the design at to occur succession.	outputs acceptance criteria do not rens. The design output documents for ttributes. As an example, it is accept as delivered volume outside of the one outside of the outside outside of the outside outside outside of the outside	as defined by atch record te ace criteria for effect the risk or the design in otable for failther especification	your firm in the Design sts, controlled drawings, rany system level reliable given the intended associated with the failure apput requirements allow the control of (b) (4); — (b) (4) mL.	History File QC test lity led use of the re of the for failures of		
Procedures for o	design verification have not been ad	equately estal	blished.			
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Thomas E. Ha	ndel , President and General	Manager STREET ADDRESS		
11.00	lical Technologies, Inc. a	2555 Hermeli	n Dr	
Pfizer Compa	ny	TYPE ESTABLISHMENT INSPE		
Brentwood, M			Drug/Device Manuf	acturer
Specifically, A. Your firm b	nas not developed design verification	testing that ade	quately tests that the o	lesign outputs
meet the de date of exp	sign inputs, specifically in regards to iry. No verification testing exists that ry performance must be acceptable a	the reliability of the reflective of	of the device at the end the design input requi	d of the labeled
is not done	thods for design verification testing (b) (4) prior to functional verification testing of the prior to function the prio	ication testing ac	ccording to your docu	
Injector usi		(b) (4)	' for the (b) (4)	. The
these failure the same tes initiation of (b) (4 delivered vo acceptable t	testing demonstrated failures of deses were deemed acceptable within the st failures would not be acceptable defan investigation. For example, in PF test was noted to have a delivered solume specification of (b) (4) — (b) (4) miles have up to (b) (4) delivered volume acceptance criteria.	e test report concuring lot release R-14719 one universed volume of the Conclusion	clusions. Your firm contesting and would trip to f the (b) (4) units tested (b) (4) ml, which is outs n of the test was that i	onfirmed that agger the ad during the ide of the t was
	erformance requirements such as spensing volume are listed to have a	(b) (4) reliability of (b) (, activation force, 6 ⁽⁴⁾ % in PR-14719 whi	
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Thomas E. Ha	andel , President and General			
FIRM NAME Meridian Med	Wall marked and an Inc.	STREET ADDRESS		
	dical Technologies, Inc. a	2555 Hermelin	Dr	
CITY, STATE, ZIP CODE, COU	JATRY			
Brentwood, M	10 63144-2504	Combination Dr	ug/Device Manuf	acturer
OBSERVATION 10 Laboratory controls do not include the establishment of scientifically sound and appropriate specifications, standards, sampling plans and test procedures designed to assure that components, drug product containers, closures, in-process materials, labeling and drug products conform to appropriate standards of identity, strength, quality and purity. Specifically, we witnessed functionality testing of EpiPen and observed the following: A. The lot release test fixtures, which are used to perform the functionality testing of the final finished product, does not include assurance that all test surfaces are level. We also observed that the employee conducting the testing did not (b) (4) to ensure that the [b) (4) was not affected by the environment during testing. The damaged and currently there is no standard operating procedure for conducting preventive maintenance on this equipment. B. We observed that drug product was accumulated on the We observed that the drug product inside the previous testing can be transferred to the final finished product's (b) (4) after dispensing the drug product and prior to weighing the unit for the delivered dose measurement. C. (b) (4) entry of (b) (4) and dispensed time relies on the operator to read the provious testing can be transferred to the final finished product's (b) (4) after dispensing the drug product and prior to weighing the unit for the delivered dose measurement. C. (b) (4) entry of (b) (4) and dispensed time relies on the operator to read the (b) (4) (b) (4) (c) (c) (d) (d) (e) (e) (e) (final N Hicks, Investigator (fina				
	PREVIOUS EDITION OBSOLETE INST	PECTIONAL OBSERVAT	IONS	PAGE 12 OF 20

	DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
8050 Marshall	NE NUMBER 1 Drive, Suite 205		2 / 2 0 / 2	SPECTION 017-3/24/2017*	
Lenexa, KS 6	66214		FEI NUMBER		
(913) 495-510	00 Fax: (913)495-5115		195022	2	
NAME AND TITLE OF INDIVIDU	IAI. TO WHOM REPORT ISSUED				
Thomas E. Ha	ndel , President and General	Manager STREET ADDRESS	-		100000000000000000000000000000000000000
	ical Technologies, Inc. a	2555 Herm	elin D	r	
Pfizer Compa	AND THE PROPERTY OF THE PROPER				
Brentwood, M		Combinati		g/Device Manufa	acturer
				3	
device occu	irs.				
D 1/	1 1 1 1 (h)	(1)			
D. Measureme tools. For ex		(4) app		ferent forces to me be increased by ap	
		(b) (4)	could	be increased by ap	prying more
Torce to the	device winte	(2) (1)		•	
E. There have	been no studies conducted to establi	sh inter-oper	ator and	l inter-test stand v	ariation of the
	est results. Currently, your firm has	(b) (4)	and	up to (b) (4) oper	rators who are
trained to co	onduct these tests.	terminal and the second	100000000000000000000000000000000000000		
T 771	1 6 17	1 2 1		10:11	
	r conducting functional testing on a	•			
	operator trained to complete the fun- cording to your firm's records in doc		The second second	and the state of t	
	y, the same operator is not included				
Pak.	,, are sume operator to not morausu.		B record	. Tor conducting to	bung of rower
The second secon	G. There is no risk assessment, failure mode analysis, or determination of analytical variation				
conducted for the functional lot release test procedure and testing process.					
OBSERVATION 11					
	trol unit lacks the responsibility and	authority to	approve	and reject all cor	nponents, drug
	ers, closures, in process materials, p				apononio, axag
					Pro-
OFF DEVEROR	EMPLOYEE(S) SIGNATURE			1/24/2017	DATE ISSUED
SEE REVERSE OF THIS PAGE	Michele L Obert, Investigator Kellia N Hicks, Investigator			X Kellia N Hicks	3/24/2017
	Phillip M Pontikos, National	Expert		Kella H Hicks Investigator	
	Rick L Friedman, Non Reporti Frank Wackes, Compliance Off			Signed by: Kella N. Hicks-S	
	(Region/District)			MI	
	Zedong Dong, FDA Center Empl			Inc	
	Employee of Other Federal Ag John C Mcmichael, FDA Center		or		
	Employee of Other Federal Ag				
FORM FDA 483 (09/08) PAGES	PREVIOUS EDITION OBSOLETE INSI	PECTIONAL OBS	SERVATIO	ONS	PAGE 13 OF 20

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
8050 Marshall Drive, Suite 205	2/20/2017-3/24/2017*			
Lenexa, KS 66214	FEI NUMBER			
(913) 495-5100 Fax: (913) 495-5115	1950222			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	The second secon			
Thomas E. Handel , President and General	Manager			
FIRM NAME	STREET ADDRESS			
Meridian Medical Technologies, Inc. a Pfizer Company	2555 Hermelin Dr			
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Brentwood, MO 63144-2504	Combination Drug/Device Manufacturer			

Specifically, Quality Assurance lacked a sufficient response to the positive sterility test of EpiPen (Epinephrine Injection, 0.3 mg) Lot 7GM063 that occurred on Friday 17 FEB 2017. The microorganism found was *Bacillus cereus*, a spore-former. For example, as of Thursday 24 FEB 2017:

- A. (b) (4) batch operations continued on the Epinephrine line and other lines, with no extra controls mandated by QA to increase scrutiny of the aseptic processing operation.
- B. Quality Assurance did not mandate a temporary suspension of batch release while the scope and possible cause of a sterility failure was being investigated.
- C. Your procedure SOP-LAB-MIC-00416 Investigation of a Sterility Test Positive, Tested in the (b) (4) , Version 9.0, only requires an evaluation of whether "(b) (4) lots and (b) (4) should be rejected, rather than evaluating if a larger issue exists on the line that could have broader scope. There is no requirement that your firm considers whether other lots manufactured on the line and in the facility may have been affected by the route of contamination.

OBSERVATION 12

Procedures designed to prevent microbiological contamination of drug products purporting to be sterile are not established and followed.

Specifically,

A. We observed breaches in aseptic technique on the Epinephrine and ATNAA/DuoDote lines. For example:

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	Phillip M Pontikos, National Expert Rick L Friedman, Non Reporting User Frank Wackes, Compliance Officer (Region/District) Zedong Dong, FDA Center Employee or Employee of Other Federal Agencies John C Mcmichael, FDA Center Employee or Employee of Other Federal Agencies	

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
8050 Marshall Drive, Suite 205	2/20/2017-3/24/2017*			
Lenexa, KS 66214	FEJ NUMBER			
(913)495-5100 Fax: (913)495-5115	1950222			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED				
Thomas E. Handel , President and General	Manager			
FIRM NAME	STREET ADDRESS			
Meridian Medical Technologies, Inc. a	2555 Hermelin Dr			
Pfizer Company				
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Brentwood, MO 63144-2504	Combination Drug/Device Manufacturer			

- 1. On 21 FEB 2017 during the filling of Epinephrine Injection 0.3mg, Lot 7GM163, an operator reached over exposed sterile barrels.
- 2. Your sterile operators introduce sterile barrels to the Epinephrine filling in an area with no barrier protection and completely open to the surrounding room, classified as Grade B. In addition, your smoke studies demonstrated turbulence in this area.
- 3. During filling operations of ATNAA Lot 7M1131 on 21 FEB 2017, your operators made interventions with their upper torso over units on the ATNAA line in two instances.

B. Regarding your media fill program:

1. For ATNAA, an operation that requires number of units were as seen in the table below. The media fill for the Epinephrine line is also a .

Product	Target Fill	Media Fill	Media Fill	Media Fill
ATNAA	(b) (4)	(b) (4) units	(b) (4) units	(b) (4)
	units	06 JAN	11 NOV	21 DEC
		2017	2016	2015
Epinephrine	(b) (4)	(b) (4) units	(b) (4) units	(b) (4) units
	units	05 JAN	18 NOV	22 JAN
		2017	2016	2015

2. The number of media fills is not commensurate with the operates on (b) (4), only (b) (4) media fills are required (b) (4) for both the Epinephrine and ATNAA lines. Your firm uses an approach that (b) (4) and is intended to cover (b) (4)

	EMPLOYEE(S) SIGNATURE		DATE ISSUED	
SEE REVERSE	Michele L Obert, Investigator	1/24/2017	3/24/2017	
OF THIS PAGE	Kellia N Hicks, Investigator X Kellia N Hicks			
	Phillip M Pontikos, National Expert			
	Rick L Friedman, Non Reporting User			
	Frank Wackes, Compliance Officer			
	(Region/District)			
	Zedong Dong, FDA Center Employee or			
	Employee of Other Federal Agencies			
	John C Mcmichael, FDA Center Employee or			
	Employee of Other Federal Agencies			

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INSPECTIONAL OBSERVATIONS

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Lenexa, KS 6	CONTRACTOR OF THE PROPERTY OF		017-3/24/2017*	
The second control of	00 Fax: (913) 495-5115		2	
NAME AND TITLE OF INDIVIDU	IAL TO WHOM REPORT ISSUED			
Thomas E. Ha	ndel , President and General	Manager street ADDRESS		
Meridian Med Pfizer Compa		2555 Hermelin D	r	
Brentwood, M		Combination Dru	g/Device Manuf	acturer
3. Your firm aborted media fill batches for ATNAA without the clear justification as required by procedure SOP- QLA-VAL-00020 Media Challenge of Aseptic Processes which states in part, "*** A media fill run shall be aborted (invalidated) only under circumstances in which written procedures require Supporting data and justification shall documented [sic] in such cases***". Your firm had no production procedures that specified the conditions that were used to justify invalidate batches on the (ATNAA) line. OBSERVATION 13 Written production and process control procedures are not followed in the execution of production and process control functions and documented at the time of performance. Specifically, A. Epinephrine, as stated in the appropriate master batch records, is required to be however, controls within the inspection and assembly area (b) (4) are deficient				
since: 1) Unit	s were observed in the inspection ar	nd assembly area bei	ng (b) (4) and
were	e not (b) (4) during bre r firm is not currently calculating th		1)	uring all phases
of p	roduction nor are you currently of ified criteria.		(b) (4)	against a
SEE REVERSE OF THIS PAGE	Michele L Obert, Investigator Kellia N Hicks, Investigator Phillip M Pontikos, National Rick L Friedman, Non Reporti Frank Wackes, Compliance Off (Region/District) Zedong Dong, FDA Center Empl Employee of Other Federal Ac John C Mcmichael, FDA Center Employee of Other Federal Ac	Expert ing User icer oyee or gencies Employee or	X Kellia N Hicks Ikin N Hicks Ikin N Hicks Ikin N Hicks Ikin Hicks Ikin Hicks Ikin K Hicks S Ikin K Hicks S	DATE ISSUED 3/24/2017
FORM FDA 483 (09/08) PAGES	PREVIOUS EDITION OBSOLETE INS	PECTIONAL OBSERVATI	ONS	PAGE 16 OF 20

Solos Marshall Drive, Suite 205 Lenexa, KS 66214 (913) 495-5100 Fax: (913) 495-5115 **Recommendation of the commendation of t		DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION			
Lenexa, KS 66214 (913) 495-5100 Fax: (913) 495-5115 TRIME ARCHITCH STREET, (913) 495-5115 TRIM		NE NUMBER	- CALLES	DATE(S) OF INSPECTION	**************************************
THE PAGE (1913) 495-5100 Fax: (913) 495-5115 WARREN REMIET RECORDANY TOWNS AND			-		2017*
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DISTRICT ADDRESS AND PHO			DATE(S) OF INSPECTION 2/20/2017-3,	/24/2017*	
Lenexa, KS 6	66214		FEI NUMBER 1950222	124/201.	- M. C.
(913) 495-510	0 Fax: (913) 495-5115		1930222		
E an analysis representation of the second and the second and seco	UAL TO WHOM REPORT ISSUED				
Thomas E. Ha	endel , President and General	Manager I STREET ADDRESS			
	lical Technologies, Inc. a	2555 Heri	melin Dr		
Pfizer Compa	ny	TYPE ESTABLISHME			
				ice Manufa	acturer
effectiveness checks for completed change controls. Process validations are completed (b) (4) but are not evaluated or trended to determine impact to the overall manufacturing process; additionally, complete process validations for autoinjector manufacturing processes such as EpiPen and ATNAA/DuoDote have not been revalidated since the initial validations. Risk assessments are not required to be performed for every change. The aforementioned procedure does not define criteria or provide examples indicating when risk assessments are necessary to be completed for the change. OBSERVATION 14 Employees engaged in the manufacture, processing, packing and holding of a drug product lack the training required to perform their assigned functions. Specifically, your firm did not conduct training for employees involved in the visual inspection for (b) (4 used in EpiPen manufacturing. For example, your Site Lead reported there is no formal OJT for the visual (b) (4) evaluation (inspection) before the (b) (4) is introduced into the process. There are no job aides to assist operators in identifying defects and there are no visual examples of defects in the procedure. There is also not a defined time frame that the (b) (4) must be evaluated for the following defects: (b) (4) Ind (b) (4) The evaluation of the (b) (4) is not timed. The operators are not qualified for visual acuity or accuracy in discovering defects for this inspection before performing the (b) (4) evaluation task.					
	Annotations to	o Observat	ions		
Observation 1:	Not annotated				
Observation 2:	Not annotated				
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Michele L Obert, Investigator Kellia N Hicks, Investigator Phillip M Pontikos, National Rick L Friedman, Non Reportic Frank Wackes, Compliance Off (Region/District) Zedong Dong, FDA Center Employee Employee of Other Federal Aggraph C Mcmichael, FDA Center Employee of Other Federal Aggraphoyee	Expert ing User icer oyee or gencies Employee	X Kellia Kedia Hisba Kedia Hi		DATE ISSUED 3/24/2017
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B050 Marshall Drive, Suite 205			DATE(S) OF INSPECTION 2/20/2017 - 3/24/2017 *
Lenexa, KS 6	-		FEI NUMBER
The state of the s	0 Fax: (913) 495-5115		1950222
NAME AND TITLE OF INDIVIDU	IAL TO WHOM REPORT ISSUED		
Thomas E. Ha	ndel , President and General	. Manager	
	ical Technologies, Inc. a		melin Dr
Pfizer Compa		2333 nei	metin bi
CITY, STATE, ZIP CODE, COU		TYPE ESTABLISHME	
Brentwood, M	0 63144-2504	Combinat	ion Drug/Device Manufacturer
Observation 3:	Not annotated		
Observation 4:	Not annotated		
Observation 5:	Not annotated		
Observation 6:	Not annotated	THE SECOND SECOND SECOND	month as an unit se annull have to a partition of the contract
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Observation 13			
Observation 14	Not annotated		
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